

**Process for the Production of a Multi-layer  
Electrode or Electrode Assembly  
and Gaseous Diffusion Electrode**

The invention relates to a process for the production of a multi-layer electrode or electrode assembly.

Furthermore, the invention relates to an electrode which has a catalytically active reaction layer.

Multi-layer electrodes or electrode assemblies are used, for example, in fuel cells or for the chlorine-alkali electrolysis. A further example of their application is the use as an oxygen-consuming electrode for the HCl electrolysis.

The object underlying the invention is to provide a process, with which an electrode or electrode assembly which is optimized for the respective use can be produced in a simple and, in particular, inexpensive manner.

This object is accomplished in accordance with the invention, in the process cited at the outset, in that a first layer is rolled onto a carrier and at least one additional function layer is produced by spraying on a powder.

As a result of the fact that, in accordance with the invention, rolling process and spraying process are combined, the use of semifinished products during